

RECEIVED

APR 17 2001

TECH CENTER 1600/2900

RAW SEQUENCE LISTING  
 PATENT APPLICATION: US/09/465,276

DATE: 04/10/2001  
 TIME: 18:35:59

Input Set : A:\Pto.amc  
 Output Set: N:\CRF3\04102001\I465276.raw

5 <110> APPLICANT: United States Army Medical Research Institute of  
 6 Infectious Diseases  
 7 Bavari, Sina  
 8 Torres Melendez, Edna R.  
 9 Lebeda, Frank J.  
 11 <120> TITLE OF INVENTION: Antibodies Against Type A Botulinum Neurotoxin  
 13 <130> FILE REFERENCE: 003/175/SAP  
 15 <140> CURRENT APPLICATION NUMBER: US 09/465,276  
 17 <141> CURRENT FILING DATE: 1999-12-16  
 19 <150> PRIOR APPLICATION NUMBER: US 60/112,632  
 21 <151> PRIOR FILING DATE: 1998-12-17  
 23 <160> NUMBER OF SEQ ID NOS: 4  
 25 <170> SOFTWARE: Apple Macintosh Microsoft Word 6.0  
 27 <210> SEQ ID NO: 1  
 29 <211> LENGTH: 141  
 30 <212> TYPE: PRT  
 31 <213> ORGANISM: Botulinum neurotoxin type A  
 33 <400> SEQUENCE: 1  
 34 Leu Asn Ser Ser Leu Tyr Arg Gly Thr Lys  
 35 5 10  
 37 Phe Ile Ile Lys Lys Tyr Ala Ser Gly Asn  
 38 15 20  
 40 Lys Asp Asn Ile Val Arg Asn Asn Asp Arg  
 41 25 30  
 43 Val Tyr Ile Asn Val Val Val Lys Asn Lys  
 44 35 40  
 46 Glu Tyr Arg Leu Ala Thr Asn Ala Ser Gln  
 47 45 50  
 49 Ala Gly Val Glu Lys Ile Leu Ser Ala Leu  
 50 55 60  
 52 Glu Ile Pro Asp Val Gly Asn Leu Ser Gln  
 53 65 70  
 55 Val Val Val Met Lys Ser Lys Asn Asp Gln  
 56 75 80  
 58 Gly Ile Thr Asn Lys Cys Lys Met Asn Leu  
 59 85 90  
 61 Gln Asp Asn Asn Gly Asn Asp Ile Gly Phe  
 62 95 100  
 64 Ile Gly Phe His Gln Phe Asn Asn Ile Ala  
 65 105 110  
 67 Lys Leu Val Ala Ser Asn Trp Tyr Asn Arg  
 68 115 120  
 70 Gln Ile Glu Arg Ser Ser Arg Thr Leu Gly  
 71 125 130  
 73 Cys Ser Trp Glu Phe Ile Pro Val Asp Asp  
 74 135 140  
 76 Gly

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/465,276

DATE: 04/10/2001  
TIME: 18:35:59

Input Set : A:\Pto.amc  
Output Set: N:\CRF3\04102001\I465276.raw

```
78 <210> SEQ ID NO: 2
80 <211> LENGTH: 25
82 <212> TYPE: PRT
83 <213> ORGANISM: Botulinum neurotoxin type A
85 <400> SEQUENCE: 2
86 Gly Thr Lys Phe Ile Ile Lys Lys Tyr Ala
87           5                      10
89 Ser Gly Asn Lys Asp Asn Ile Val Arg Asn
90           15                      20
92 Asn Asp Arg Val Tyr
93           25
95 <210> SEQ ID NO: 3
97 <211> LENGTH: 25
99 <212> TYPE: PRT
100 <213> ORGANISM: Botulinum neurotoxin type A
102 <400> SEQUENCE: 3
103 Gly Ile Thr Asn Lys Cys Lys Met Asn Leu
104           5                      10
106 Gln Asp Asn Asn Gly Asn Asp Ile Gly Phe
107           15                      20
109 Ile Gly Phe His Gln
110           25
111 <210> SEQ ID NO: 4
113 <211> LENGTH: 25
115 <212> TYPE: PRT
116 <213> ORGANISM: Botulinum neurotoxin type A
118 <400> SEQUENCE: 4
119 Ala Leu Asn Asp Leu Cys Ile Lys Val Asn
120           5                      10
122 Asn Trp Asp Leu Phe Phe Ser Pro Ser Glu
123           15                      20
125 Asp Asn Phe Thr Asn
126           25
```

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/465,276

DATE: 04/10/2001

TIME: 18:36:00

Input Set : A:\Pto.amc

Output Set: N:\CRF3\04102001\I465276.raw